



Office of Education, Division of Intramural Research
National Heart, Lung, and Blood Institute
FELLOWS NEWSLETTER

The Fellows Newsletter is published monthly by the Office of Education, Division of Intramural Research, National Heart, Lung, and Blood Institute and distributed to NHLBI DIR members to promote the interest of DIR Fellows.

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From the Director of the Office of Education

Registration and Abstract Submission for the 2007 Fellows Retreat are now open. The retreat is a once-a-year opportunity for you to interact with other NHLBI fellows. The poster sessions and talks will let you share your research with each other, while the meals and evening karaoke give you a chance to interact informally. We also have two outstanding speakers: the Keynote speaker is Dr. Alan Leshner, Executive Officer of the American Association for the Advancement of Science, who is also the publisher of *Science*. Dr. Leshner is a former head of NIMH and his talk will inform us about the keys to success. Our Scientific Speaker is Dr. George Yancopoulos of Regeneron Pharmaceuticals. Dr. Yancopoulos is one of the most cited scientists of our time, and his talk will also inform us about the kinds of science that can be done in the biotechnology industry. The NHLBI Lenfant Fellows will present talks, and we will have a career development session with representatives from a University, Pharmaceutical Industry and Technology Transfer.

Awards will be given to fellows for best posters in several different categories: Postdoctoral (Basic and Clinical), Predoctoral, and Postbaccalaureate submissions. Posters will be judged by the tenure-track investigators of NHLBI.

Finally, you will have a chance to share your musical talent at the Karaoke session on Thursday evening. I hope to see you all there!

Why I'll Be Going to the Next Fellows Retreat

by

Yuliya Preabrazhenskaya, Ph.D.

Last year, I attended the 4th Annual NHLBI Fellows Retreat that took place in a beautiful resort on the bayshore. I decided to go because I had a bunch of good data and wanted to present it to a large audience. The scientific part of the retreat was in a nice conference hall, fully organized and on a highly scientific level. Everybody was encouraged with a number of inspirational speakers

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The Academic Job Search Part 2: Perspectives from the Other Side

by

Herbert M. Geller, Ph.D.

We concluded last month at the interview process. Let's assume that you've made the first cut: the screening committee has determined that you are worthy of further consideration. The next step is either a telephone/ video conference interview or an on-campus visit. Because travel is becoming more expensive, the former is becoming more

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(Retreat, cont'd)

including Drs. Craig Venter and Stuart Orkin. You could tell that they truly loved science.

At the retreat, I recognized a lot of people from my field of science and my lab. It was really cheerful and exciting to communicate with the people who think in the same way as you do and can give good feedback on the work that you are involved every day. I was also able to make the acquaintance of other post-docs outside of my lab – which was very useful.

During the poster session, I was delighted with the high level of presentations. One of the tenure track faculty members even said that mine was at the Top 10!

The evening program concluded with a night of karaoke. It was fun to see people who are usually so serious in their jobs, being able to have fun.

All in all, the retreat is an event in our life, the life of modest post-docs, different from the life in the lab, where you can apply your abilities, show your achievements and have a good rest combined with pleasant conversations about things familiar for you. I know that Gettysburg will be just as great, so sign up and have fun at the next retreat!



Yuliya Preabrazhenskaya is a Visiting Fellow in the Laboratory of Biochemistry.

Nominate your mentor for the 2007 Mentor Award!

Have a really great mentor? Think he or she should be recognized for their amazing mentoring skills? Nominate them to win an award at the upcoming fellows retreat! Log-on to the retreat site and click "**Mentor Nomination**" for more.

Registration is now open for the DIR Annual Fellows Retreat!

**April 19- 20, 2007
Wyndham Gettysburg, PA**

**Abstract Deadline: March 19th.
Registration Deadline: March 25th.
Mentor Awards Nominations: March 25th.**

Visit the Retreat Web site for more info!

<http://dir-intranet.nhlbi.nih.gov/oe/abstractsubmission>



(Job Search cont'd)

popular, as it provides an opportunity for a search committee to interview a wider field of candidates without losing more than time. The normal goal is to winnow the field down to 3-5 candidates who will be invited for a campus visit.

The major goal of the telephone/video conference interview is to identify any flaws in that would prevent you from being a successful faculty member. The interview can explore any of the topics that are normally covered during an on-campus interview: what are your research/teaching goals, how you will fit in with the University/ Department, explain your experience, etc. Because you are communicating with people, your best strategy is to treat it as a conversation. "Be yourself": answer questions honestly and don't try to game the system or give the committee answers that you think they want to hear. If you don't understand a question, you should ask for clarification rather than

try to guess. Most search committees are smart enough to pick up any false answers, and are likely to follow up with questions that foil this strategy.

If you pass this hurdle, the next step will be the campus visit. Because campus visits are time consuming and often expensive, invitations are only extended to those who are deemed likely to be hired. So the visit will have a dual function 1) allowing others who were not part of the interview process who will be your colleagues to meet you and offer an assessment and 2) providing you an opportunity to get to know the institution and its administration. In addition to a meeting with the search committee, you will probably have many individual meetings with your future chair, faculty and perhaps administrators, such as a Dean. Because hiring a junior faculty member is essentially taking a bet on your success as a faculty member, most of the visit will be an assessment of your future possibilities and how you will interact in their situation. You will

(Job Search, cont'd)

definitely be asked to present a research talk, and some colleges with a focus on undergraduate teaching may even ask you to teach a sample class or present a “teaching talk” on some fundamental issue related to the field. Most of your audience for your talk(s) will be faculty who do not know your research, and so your talk needs to appeal to researchers in your particular area as well as the other members of the faculty. They will want to get a sense of how “fundable” your research is: is it important? Do you have a clear plan for a grant application? Finally, since collaborative research often leads to increased funding, your future colleagues will also want to know how adding you to the campus will enhance their research as well. Thus, the more you know about their research, the better your impression.

You will also be expected to interact socially at lunches and dinner. Lunches are often with the graduate students, who can be a very good source of information about the politics of the institution. Dinners are normally with faculty and perhaps your potential immediate supervisor. While social-type questions are officially “off-limits”, faculty will also be hoping for a “collegial” individual who can help in all the typical academic activities, such as committee work, and your behavior at social functions is often an indicator of how well you’ll get along. While there are many sources of information for how to act at interviews, they often neglect one tip: at meals, *don’t order anything that might put sauce on your clothing*. Next month we’ll discuss what happens if you are offered the job.

**New NHLBI Fellows**

Gurpreet Kaur, Ph.D. is a postdoctoral fellow in the IPDC under the mentorship of Dr. Gary Griffiths.

She received her Ph.D. in Organic Chemistry from Georgia State University in Atlanta, GA. While at the NHLBI, Dr. Kaur will be working on developing fluorescent probes for biological applications.



Yang-Nim Park, Ph.D. is a new Visiting Fellow in the Laboratory of Cell Biology under the mentorship of

Dr. Lois Greene. She received her Ph.D. from the Institute for Molecular Infections Biology at Julius-Maximilians University Würzburg, Germany. While at the NHLBI, Dr. Park will be working on yeast prion.



Yuan Le, Ph.D. is a new visiting fellow in the Laboratory of Cardiac Energetics under the mentorship of Dr.

Han Wen. She received her Ph.D. in Biomedical Engineering from the Mayo Clinic College of Medicine in Rochester, MN. While at the NHLBI, Dr. Le will be working on new techniques in MRI.



Jianjun Xie, M.D., is a visiting fellow in the Hematology Branch under the mentorship of Dr.

Cynthia Dunbar. He received his MD from the Capital University of Medical Sciences in the PR of China. While at the NHLBI, Dr. Xie will be working on gene therapy.

Jessica’s Corner

W

OO! Is all I have to say to the amazing few days of weather we’ve been having. All that snow and cold weather of the previous few weeks made it difficult for any normally upbeat person to stay positive. Even your favorite bubbly coworker exhibited an unfamiliar scowl.

And while I’m feeling a bit down and blue in the office, my ipod will play a random and super inspirational song, as if by magic. My extremely random playlist will go anywhere from Frou Frou to Jem to India.Arie to Superchick or even the Pokemon Soundtrack. It tells me, like a good friend, to keep your head up. It’s not THAT bad and it WILL get better.

Music is my security blanket and my tranquilizer. It keeps a song in my heart and slaps a smile on my face. So I’m wondering fellows (and all you other is-it-spring-yet? readers), what gets you through the day? If you need a little help making up your mind, here’s a little of that inspiration station for you:

“There’s hope, it doesn’t cost a thing to smile, you don’t have to pay to laugh.... We gotta keep on survivin’, keep livin’ our truth and do the best we can do. Keep shining your light, and show the world your smile.” -India.Arie, “There’s Hope”

Happy Daylight Savings Time!

Recent Publications by NHLBI Fellows

- Burton, R. A.** & Tjandra, N. (2007). Residue-specific C-13' CSA tensor principal components for ubiquitin: Correlation between tensor components and hydrogen bonding. *J. A. C. S.* 129, 1321-1326.
- de Silva, R., Gutierrez, L. F., Raval, A. N., McVeigh, E. R., Ozturk, C., & Lederman, R. J.** (2006). X-ray fused with magnetic resonance imaging (XFM) to target endomyocardial injections - Validation in a swine model of myocardial infarction. *Circulation* 114, 2342-2350.
- Hoffert, J. D., Nielsen, J., Yu, M. J., Pisitkun, T., Schleicher, S. M., Nielsen, S., & Knepper, M. A.** (2007). Dynamics of aquaporin-2 serine-261 phosphorylation in response to short-term vasopressin treatment in collecting duct. *Am. J. Physiol. Renal Physiol.* 292, F691-F700.
- Hwang, K. J., Mahmoodian, F., Ferretti, J. A., Korn, E. D., & Gruschus, J. M.** (2007). Intramolecular interaction in the tail of Acanthamoeba myosin IC between the SH3 domain and a putative pleckstrin homology domain. *Proc. Natl. Acad. Sci. U. S. A* 104, 784-789.
- Lundqvist, A.** McCoy, JP, Samsel L, Childs R. (2006) Reduction of GVHD and enhanced anti-tumor effects after adoptive infusion of alloreactive Ly49-mismatched NK-cells from MHC-matched donors. *Blood*.
- Masson, M. J., Peterson, R. A., Chung, C. J., Graf, M. L., Carpenter, L. D., Ambroso, J. L., Krull, D. L., Sciarrotta, J., & Pohl, L. R.** (2007). Lymphocyte loss and immunosuppression following acetaminophen-induced hepatotoxicity in mice as a potential mechanism of tolerance. *Chem. Res. Toxicol.* 20, 20-26.
- Rosales, T., Georget, V., Malide, D., Smirnov, A., Xu, J. H., Combs, C., Knutson, J. R., Nicolas, J. C., & Royer, C. A.** (2007). Quantitative detection of the ligand-dependent interaction between the androgen receptor and the co-activator, Tif2, in live cells using two color, two photon fluorescence cross-correlation spectroscopy. *Eur Biophys J.* 36, 153-161.
- Sachdev, V., Machado, R. F., **Shizukuda, Y., Rao, Y. N., Sidenko, S., Ernst, I., St Peter, M., Coles, W. A., Rosing, D. R., Blackwelder, W. C., Castro, O., Kato, G. J., & Gladwin, M. T.** (2007). Diastolic dysfunction is an independent risk factor for death in patients with sickle cell disease. *J. Am. Coll. Cardiol.* 49, 472-479.
- Sampath, S., Raval, A. N., Lederman, R. J., & McVeigh, E. R.** (2007). High-resolution 3D arteriography of chronic total peripheral occlusions using a T-1-W turbo spin-echo sequence with inner-volume Imaging. *Magn. Reson. Med.* 57, 40-49.
- Shen, X., Hong, M. S., Moss, J., & Vaughan, M.** (2007). BIG1, a brefeldin A-inhibited guanine nucleotide-exchange protein, is required for correct glycosylation and function of integrin beta 1. *Proc. Natl. Acad. Sci. U. S. A* 104, 1230-1235.
- Shin, S. Y., **Choi, H. Y., Ahn, B. H., Min, D. S., Son, S. W., & Lee, Y. H.** (2007). Phospholipase C gamma 1 stimulates transcriptional activation of the matrix metalloproteinase-3 gene via the protein kinase C/Raf/ERK cascade. *Biochem. Biophys. Res. Comm.* 353, 611-616.
- Shizukuda, Y., Bolan, C. D., Tripodi, D. J., Yau, Y. Y., Smith, K. P., Arena, R., Waclawiw, M. A., Leitman, S. F., & Rosing, D. R.** (2007). Exercise capacity of cardiac asymptomatic hereditary hemochromatosis subjects. *Medicine and Science in Sports and Exercise* 39, 3-7.
- Tanaka, M., Chock, P. B., & Stadtman, E. R.** (2007). Oxidized messenger RNA induces translation errors. *Proc. Natl. Acad. Sci. U. S. A* 104, 66-71.
- Xin, Z. T., Beauchamp, A. D., **Calado, R. T., Bradford, J. W., Regal, J. A., Shenoy, A., Liang, Y. Y., Lansdorp, P. M., Young, N. S., & Ly, H.** (2007). Functional characterization of natural telomerase mutations found in patients with hematologic disorders. *Blood* 109, 524-532.
- Yao, Y. G., Ogasawara, Y., Kajigaya, S., Mollndrem, J. J., Falcao, R. P., Pintao, M. C., McCoy, J. P., **Rizzatti, E. G., & Young, N. S.** (2007). Mitochondrial DNA sequence variation in single cells from leukemia patients. *Blood* 109, 756-762.

FARE 2008 Award Applications Now Open!Abstracts are being accepted from **March 12 to April 16, 2007.**NHLBI Fellows could win a **\$1,000 stipend increase!**Visit <http://felcom.nih.gov/FARE> for more information.